Item No. 69



TOWN OF LAUDERDALE-BY-THE-SEA

AGENDA ITEM REQUEST FORM

Chen & Associates Department Submitting Request						Town Engineer James Barton					
						Dept Head's Signature					
	Commission Meeting Dates	Last date to turn in to Town Clerk's Office	ı	Commission Meeting Dates			to turn in to erk's Office		Commission Meeting Dates	Last date to turn in to Town Clerk's Office	
	Nov 10, 2009	Oct. 30 (5:00 p.m.)		Jan 26, 2010		Jan 15 (5	:00 p.m.)		March 23, 2010	Mar 12 (5:00 p.m.)	
	Dec 1, 2009	Nov 20 (5:00 p.m.)		Feb 9, 2010		Jan 29 (5	:00 p.m.)		April 13, 2010	April 2 (5:00p.m.)	
	Dec 8, 2009	Nov 25 (5:00 p.m.)		Feb 23, 2010)	Feb 12 (5	5:00 p.m.)	\boxtimes	April 27, 2010	April 16 (5:00p.m.)	
	Jan 12, 2010	Dec 31 (5:00 p.m.)		Mar 4, 2010	,	Feb 19 (5	:00p.m.)		May 11, 2010	April 30 (5:00p.m.)	
	TURE OF ENDA ITEM	⊠ Rep		nsent Agenda			Resolution Ordinance Public He Old Busin	e aring		New Business Manager's Report Attorney's Report Other	
EXI	EXPLANATION: Stormwater Master Plan Final Report (Town Engineer James Barton)										
	AFF RECOMM	ENDATION:	ENDA	TION:							
FISCAL IMPACT AND APPROPRIATION OF FUNDS:											
	Amount \$										
Tow	n Attorney review Yes 🛛	-							Town	Manager's Initials:	

June White

From:

James H. Barton [jbarton@chenandassociates.com]

Sent:

Tuesday, April 20, 2010 6:08 PM

To:

John Olinzock

Cc:

June White; Peter Moore; Jason J. McClair

Subject:

RE: Stormwater Master Plan Final Report

Attachments: SMP Key Findings.ppt

June,

Please find attached the presentation called

Stormwater Master Plan – Key Findings

This presentation will describe the details of the Stormwater Master Plan. The report is due and will be submitted the same day as the presentation. The presentation will be a guide for the Commission to understand the methodology and key recommendations described in the report.

Thanks James

James Barton, P.E.

Senior Engineer ESRI Authorized Trainer

Chen and Associates

500 Australian Avenue South, Suite 615

West Palm Beach, FL 33401

Phone: 561.746.6900 Mobile: 954.914.8488 Fax: 561.746.8333

Website: www.chenandassociates.com

CE News Best Places to Work 2008 - "Highest Ranked Civil Engineering Firm in South Florida"

South Florida Business Journal 2007 - "Best of Places to Work South Florida"

From: John Olinzock [mailto:johno@lauderdalebythesea-fl.gov]

Sent: Tuesday, April 20, 2010 11:22 AM

To: James H. Barton **Cc:** June White

Subject: Stormwater Master Plan Final Report

James.

June is preparing to publish agenda for 27 Apr 2010 commission meeting and needs the final report.

John E. Olinzock Assistant Town Manager Town of Lauderdale By-The-Sea 4501 Ocean Drive Lauderdale By-The-Sea, FL 33308-3610 954-776-0576

STORMWATER MASTER PLAN KEY FINDINGS

Presented to Town of Lauderdale-By-The-Sea by Chen and Associates



CHEN



PRESENTATION OUTLINE

- 1. Introduction
- 2. DATA COLLECTION
- 3. EVALUATION OF EXISTING DATA
- 4. PROPOSED ALTERNATIVES FOR STORMWATER IMPROVEMENTS
- 5. CONCLUSIONS

INTRODUCTION

liltkodactioii

Purpose

- Schedule
 October 29, 2009 Purchase Order January 8, 2010 Task 1
 February 27, 2010 Task 2
 April 10, 2010 Task 3
 May 5, 2010 Master Plan
- Team



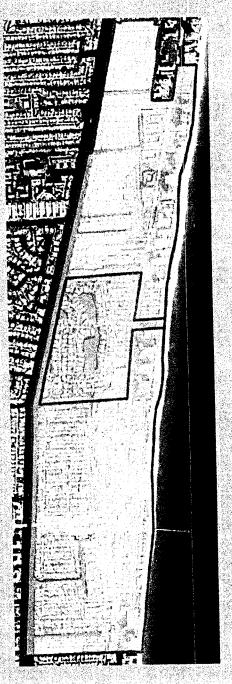


DATA COLLECTION

DATA COLLECTION

- General
- Land Use
- Soils
- FloodPlain Elevations
- Topography
- Drainage Atlas
- Past Projects
- Property Research
- Easements







EVALUATION OF EXISTING DATA

EVALUATION OF EXISTING DATA

- General Conditions
- System Assessment

Site Visits

Resident Complaints

Outfall Inventory
Pipe Inspection

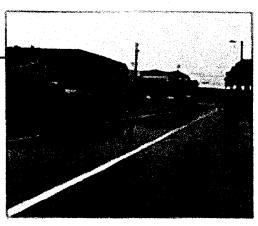


Figure 3: Paved Shoulder

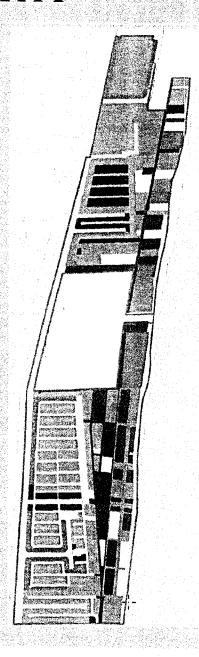




EAVERAGE DALVERYE SO NOUNALINE

- Model Input Data
 Basins
 - **Hydrologic Parameters**
 - Links
 - **Boundary Conditions**
 - Rainfall
- System Requirements
 - **Level of Service Criteria**
 - **Regulatory Requirements**
- Model Results







PROPOSED ALTERNATIVES FOR STORMWATER IMPROVEMENTS

PROPOSED ALTERNATIVES FOR STORMWATER IMPROYEMENTS

Regional Alternatives
 Swale Restoration Program
 Inlet Maintenance Program
 Pipe Repair Program
 Outfall Maintenance Program



Figure 1: Sheet Flow





STORMWATER IMPROVEMENTS

Local Alternatives

Bougainvilla Drive Poinciana Street **Pavilion Area** El Mar Drive (North) El Mar Drive (South) **Alleyways West Tradewinds Avenue** Flamingo Avenue **Hibiscus Avenue Datura Avenue East Tradewinds Avenue Harbor Drive Terramar Drive**



Figure 4: Neighborhood Flooding





CONCLUSIONS

Colicinatoria

Summary

Cost Estimate





QUESTIONS?